



1600

RAW SEQUENCE LISTING

DATE: 03/12/2004

PATENT APPLICATION: US/10/086,489

TIME: 14:54:04

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\03122004\J086489.raw

3 <110> APPLICANT: The Trustees of Columbia University
 5 <120> TITLE OF INVENTION: METHOD TO DETECT MUTATIONS IN NUCLEIC ACID USING A
 HYBRIDIZATION-LIGATION

6 PROCEDURE

8 <130> FILE REFERENCE: 0575/44012-AB

10 <140> CURRENT APPLICATION NUMBER: 10/086,489

11 <141> CURRENT FILING DATE: 2002-02-28

13 <150> PRIOR APPLICATION NUMBER: 09/100,707

14 <151> PRIOR FILING DATE: 1998-06-19

16 <150> PRIOR APPLICATION NUMBER: 08/853,000

17 <151> PRIOR FILING DATE: 1997-05-08

19 <150> PRIOR APPLICATION NUMBER: 08/409,644

20 <151> PRIOR FILING DATE: 1995-03-24

22 <160> NUMBER OF SEQ ID NOS: 7

24 <170> SOFTWARE: PatentIn version 3.1

26 <210> SEQ ID NO: 1

27 <211> LENGTH: 24

28 <212> TYPE: DNA

29 <213> ORGANISM: human

31 <400> SEQUENCE: 1

32 gaacagggtt tgtaagatg gcag

24

35 <210> SEQ ID NO: 2

36 <211> LENGTH: 25

37 <212> TYPE: DNA

38 <213> ORGANISM: human

40 <400> SEQUENCE: 2

41 agccccggttaa tcgcataaaa cttaa

25

44 <210> SEQ ID NO: 3

45 <211> LENGTH: 19

46 <212> TYPE: DNA

47 <213> ORGANISM: human

49 <400> SEQUENCE: 3

50 ctgccatctt aacaaaccc

19

53 <210> SEQ ID NO: 4

54 <211> LENGTH: 21

55 <212> TYPE: DNA

56 <213> ORGANISM: human

58 <400> SEQUENCE: 4

59 gttttatgcg attaccgggc c

21

62 <210> SEQ ID NO: 5

63 <211> LENGTH: 12

64 <212> TYPE: DNA

65 <213> ORGANISM: human

67 <220> FEATURE:

ENTERED

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68 <221> NAME/KEY: misc_feature
 69 <222> LOCATION: (1)..(1)
 70 <223> OTHER INFORMATION: "N" means any base
 73 <220> FEATURE:
 74 <221> NAME/KEY: misc_feature
 75 <222> LOCATION: (2)..(2)
 76 <223> OTHER INFORMATION: "N" means any base
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 80 <221> NAME/KEY: misc_feature
 81 <222> LOCATION: (3)..(3)
 82 <223> OTHER INFORMATION: "N" means any base
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 86 <221> NAME/KEY: misc_feature
 87 <222> LOCATION: (10)..(10)
 88 <223> OTHER INFORMATION: "N" means any base
 91 <220> FEATURE:
 92 <221> NAME/KEY: misc_feature
 93 <222> LOCATION: (11)..(11)
 94 <223> OTHER INFORMATION: "N" means any base
 97 <220> FEATURE:
 98 <221> NAME/KEY: misc_feature
 99 <222> LOCATION: (12)..(12)
 100 <223> OTHER INFORMATION: "N" means any base
 103 <400> SEQUENCE: 5

W--> 104 nnncccggn nn

12

107 <210> SEQ ID NO: 6
 108 <211> LENGTH: 70
 109 <212> TYPE: DNA
 110 <213> ORGANISM: human
 112 <400> SEQUENCE: 6
 113 ctgccatctt aacaaacct tttttttttt tttttttttt tttttttttg ttttatgcga 60
 115 ttaccgggcc 70
 118 <210> SEQ ID NO: 7
 119 <211> LENGTH: 68
 120 <212> TYPE: DNA
 121 <213> ORGANISM: human
 123 <220> FEATURE:
 124 <221> NAME/KEY: misc_structure
 125 <222> LOCATION: (20)..(47)
 126 <223> OTHER INFORMATION: spacer region
 129 <220> FEATURE:
 130 <221> NAME/KEY: misc_feature
 131 <222> LOCATION: (20)..(20)
 132 <223> OTHER INFORMATION: "N" means any base
 135 <220> FEATURE:
 136 <221> NAME/KEY: misc_feature
 137 <222> LOCATION: (21)..(21)
 138 <223> OTHER INFORMATION: "N" means any base
 141 <220> FEATURE:

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142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: (22)..(22)
144 <223> OTHER INFORMATION: "N" means any base
147 <220> FEATURE:
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149 <222> LOCATION: (23)..(23)
150 <223> OTHER INFORMATION: "N" means any base
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154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (24)..(24)
156 <223> OTHER INFORMATION: "N" means any base
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: (25)..(25)
162 <223> OTHER INFORMATION: "N" means any base
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166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (26)..(26)
168 <223> OTHER INFORMATION: "N" means any base
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172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (27)..(27)
174 <223> OTHER INFORMATION: "N" means any base
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178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (28)..(28)
180 <223> OTHER INFORMATION: "N" means any base
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184 <221> NAME/KEY: misc_feature
185 <222> LOCATION: (29)..(29)
186 <223> OTHER INFORMATION: "N" means any base
189 <220> FEATURE:
190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (30)..(30)
192 <223> OTHER INFORMATION: "N" means any base
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196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (31)..(31)
198 <223> OTHER INFORMATION: "N" means any base
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (32)..(32)
204 <223> OTHER INFORMATION: "N" means any base
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (33)..(33)
210 <223> OTHER INFORMATION: "N" means any base
213 <220> FEATURE:
214 <221> NAME/KEY: misc_feature

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Input Set : A:\pto.da.txt

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215 <222> LOCATION: (34)..(34) /
216 <223> OTHER INFORMATION: "N" means any base
219 <220> FEATURE:
220 <221> NAME/KEY: misc_feature /
221 <222> LOCATION: (35)..(35)
222 <223> OTHER INFORMATION: "N" means any base
225 <220> FEATURE:
226 <221> NAME/KEY: misc_feature /
227 <222> LOCATION: (36)..(36)
228 <223> OTHER INFORMATION: "N" means any base
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature /
233 <222> LOCATION: (37)..(37)
234 <223> OTHER INFORMATION: "N" means any base
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238 <221> NAME/KEY: misc_feature /
239 <222> LOCATION: (38)..(38)
240 <223> OTHER INFORMATION: "N" means any base
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature /
245 <222> LOCATION: (39)..(39)
246 <223> OTHER INFORMATION: "N" means any base
249 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (40)..(40) /
252 <223> OTHER INFORMATION: "N" means any base
255 <220> FEATURE:
256 <221> NAME/KEY: misc_feature /
257 <222> LOCATION: (41)..(41)
258 <223> OTHER INFORMATION: "N" means any base
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature /
263 <222> LOCATION: (42)..(42)
264 <223> OTHER INFORMATION: "N" means any base
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature /
269 <222> LOCATION: (43)..(43)
270 <223> OTHER INFORMATION: "N" means any base
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature /
275 <222> LOCATION: (44)..(44)
276 <223> OTHER INFORMATION: "N" means any base
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature /
281 <222> LOCATION: (45)..(45)
282 <223> OTHER INFORMATION: "N" means any base
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature /
287 <222> LOCATION: (46)..(46)

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288 <223> OTHER INFORMATION: "N" means any base

291 <220> FEATURE:

292 <221> NAME/KEY: misc_feature

293 <222> LOCATION: (47)..(47)

294 <223> OTHER INFORMATION: "N" means any base

297 <400> SEQUENCE: 7

W--> 298 ctgccatctt aacaaaccn nnnnnnnnnn nnnnnnnnnn nnnnnngtt ttatgcat 60
300 accgggcc 68

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/086,489

DATE: 03/12/2004
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Input Set : A:\pto.da.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. ~~1, 2, 3, 10, 11, 12~~

Seq#:7; N Pos. ~~20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39~~

Seq#:7; N Pos. ~~40, 41, 42, 43, 44, 45, 46, 47~~

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

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Input Set : A:\pto.da.txt

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L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0